

# Inspiron 7490


## Setup and Specifications



## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Set up your Inspiron 7490

**NOTE:** The images in this document may differ from your computer depending on the configuration you ordered.

1. Connect the power adapter and press the power button.



**NOTE:** To conserve battery power, the computer might enter power saving mode (sleep state). Connect the power adapter and press the power button to turn on the computer.



2. Finish Windows setup.



Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:

- Connect to a network for Windows updates.
- **NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

3. Locate and use Dell apps from the Windows Start menu—Recommended

**Table 1. Locate Dell apps**

Resources	Description
	<p><b>My Dell</b></p> <p>Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.</p>
	<p><b>SupportAssist</b></p> <p>Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p> <p><b>NOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>

Resources	Description
	<p><b>Dell Update</b></p> <p>Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the knowledge base article <a href="#">SLN305843</a> at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>
	<p><b>Dell Digital Delivery</b></p> <p>Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article <a href="#">153764</a> at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>

# Setting up the LTE (4G) connection

## Topics:

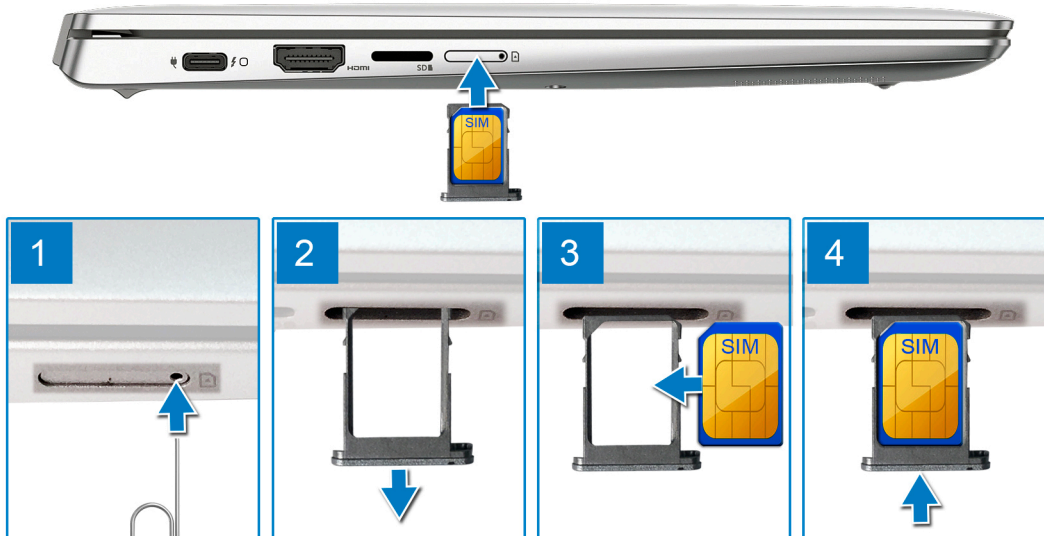
- Installing the Nano-SIM card
- Activating the Nano-SIM card

## Installing the Nano-SIM card

**NOTE:** The Nano-SIM card slot is available in your computer depending on the region and configuration you ordered.

**NOTE:** The Nano-SIM card might be preinstalled in your computer depending on the configuration you ordered. If you have purchased the Nano-SIM card after purchasing your computer, you must install the Nano-SIM card in its slot, and then **activate** the Nano-SIM card.

1. Locate the Nano-SIM card tray.
2. Insert the SIM eject tool (or paper clip) into the hole, next to the Nano-SIM card tray until the tray pops out.
3. Pull the tray and place the Nano-SIM card in the tray.
4. Push the tray back into the slot.



5. Turn on your computer and **activate** the Nano-SIM card.

## Activating the Nano-SIM card

**NOTE:** Ensure that you **install the Nano-SIM card in your computer** before activating the Nano-SIM card. If the Nano-SIM card is already preinstalled, proceed to activate your Nano-SIM card.

You must activate your Nano-SIM card after installing it in your computer.

1. **Install the Nano-SIM card in your computer.** If the Nano-SIM card is already preinstalled, skip this step.
2. Click the Start button.
3. Click the **MyDell LTE** tile.  
The **Online On the Go** window appears.

4. Note down the IMEI and ICCID Nano-SIM card values available in the right pane of the **Online On the Go** window.
5. Click **DETAILS** in the left pane of the **Online On the Go** window.  
The [LTE-enabled Dell Device](#) page opens in the default web browser.
6. Go to the corresponding Nano-SIM card carrier website.
7. Follow the instructions in the [LTE-enabled Dell Device](#) page to activate your Nano-SIM card.

## Views of Inspiron 7490

### Right



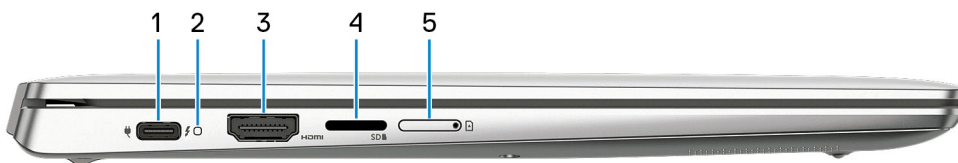
#### 1. Headset port

Connect headphones or a headset (headphone and microphone combo).

#### 2. USB 3.1 Gen 1 ports (2)

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

### Left



#### 1. Thunderbolt 3 (USB Type-C) port with Power Delivery (Primary)

Supports USB 3.1 Gen 2 Type-C, DisplayPort 1.2, Thunderbolt 3 and also enables you to connect to an external display using a display adapter. Provides data transfer rates up to 10 Gbps for USB 3.1 Gen 2 and up to 40 Gbps for Thunderbolt 3. Supports Power Delivery that enables two-way power supply between devices. Provides up to 5 V/3 A power output that enables faster charging.

**NOTE:** A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

#### 2. Power and battery-status light

Indicates the power state and battery state of the computer.

Solid white—Power adapter is connected and the battery is charging.

Solid amber—Battery charge is low or critical.

Off—Battery is fully charged.

#### 3. HDMI port

Connect to a TV or another HDMI-in enabled device. Provides video and audio output.

#### 4. microSD-card slot

Reads from and writes to the microSD card. The computer supports the following card types:

- microSecure Digital (SD)
- microSecure Digital High Capacity (SDHC)
- microSecure Digital Extended Capacity (SDXC)

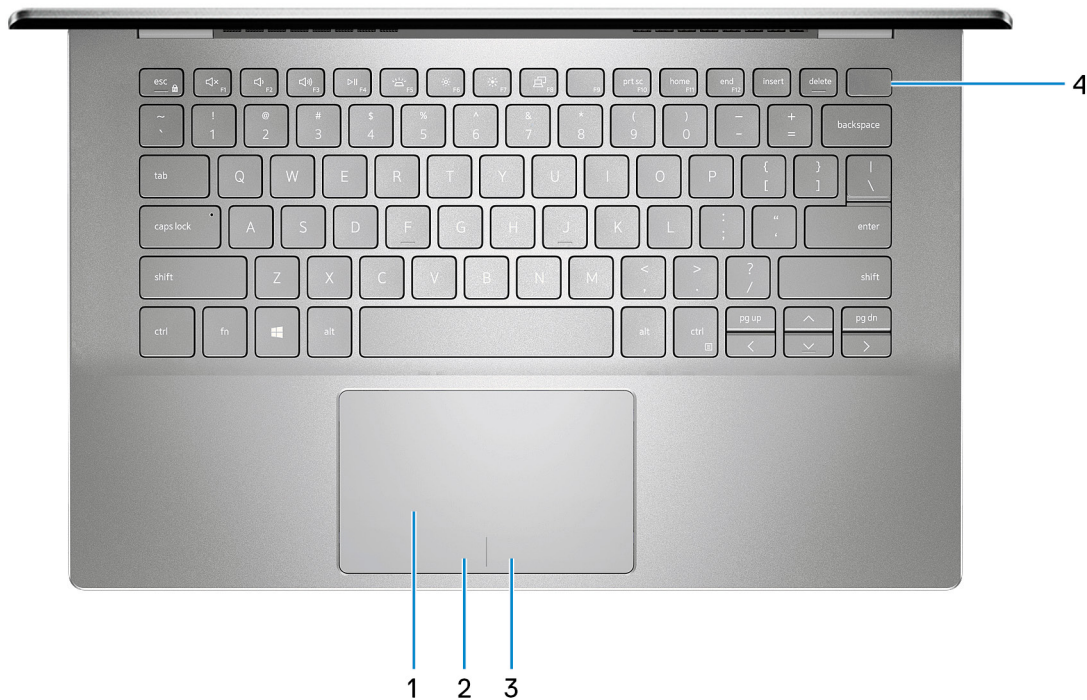
#### 5. Nano-SIM card slot (optional)

Insert a nano-SIM card to connect to a mobile broadband network.

**NOTE:** Availability of the nano-SIM card slot depends on the region and configuration ordered.



# Base



## 1. Touchpad

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two finger tap to right-click.

## 2. Left-click area

Press to left-click.

## 3. Right-click area

Press to right-click.

## 4. Power button with optional fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

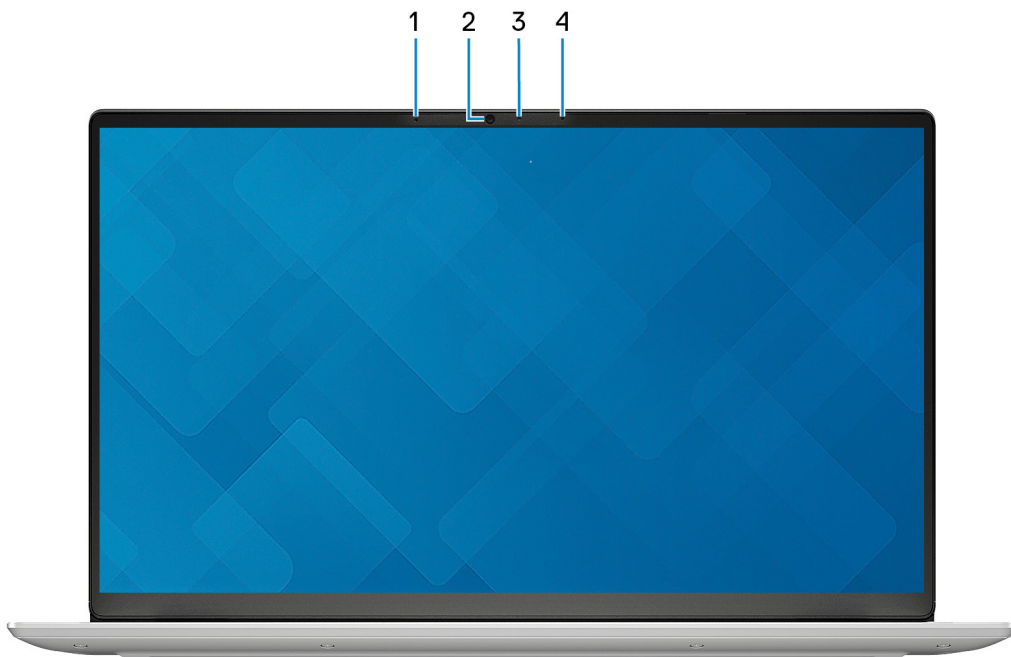
When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

If the power button has a fingerprint reader, place your finger on the power button to log in.

**NOTE:** You can customize power-button behavior in Windows. For more information, see *Me and My Dell* at [www.dell.com/support/manuals](http://www.dell.com/support/manuals).

**NOTE:** The power-status light on the power button is available only on computers without the fingerprint reader. Computers shipped with the fingerprint reader integrated on the power button will not have the power-status light on the power button.

# Display



**1. Left microphone**

Provides digital sound input for audio recording and voice calls.

**2. Camera**

Enables you to video chat, capture photos, and record videos.

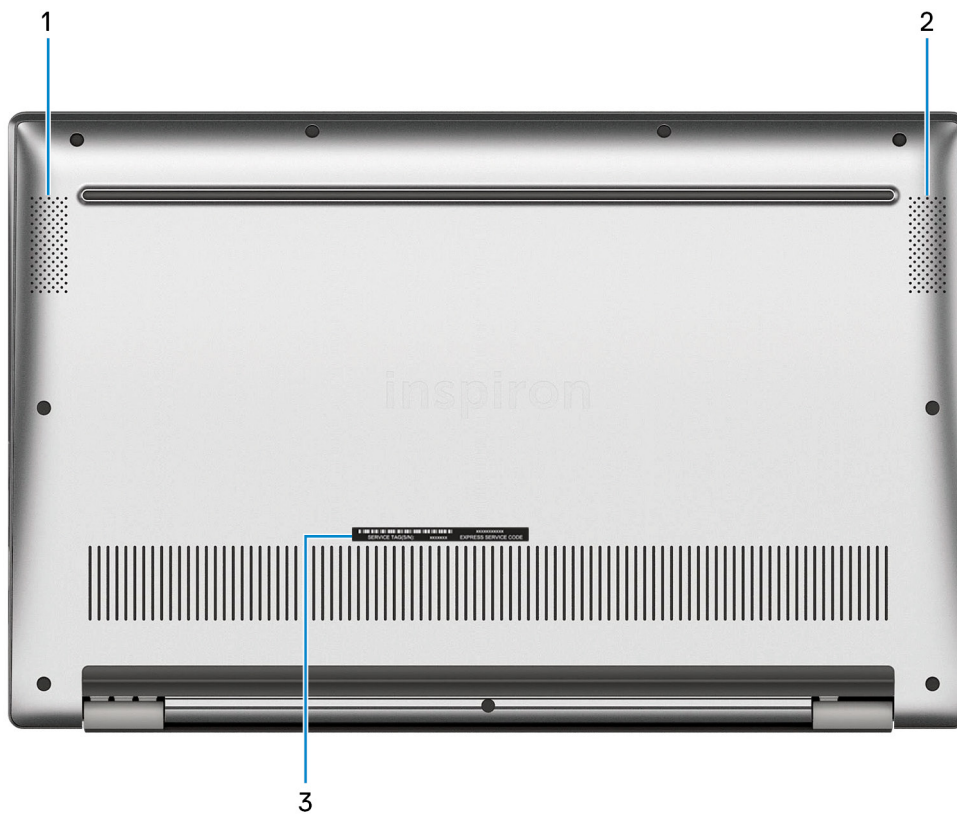
**3. Camera-status light**

Turns on when the camera is in use.

**4. Right microphone**

Provides digital sound input for audio recording and voice calls.

# Bottom



**1. Left speaker**

Provides audio output.

**2. Right speaker**

Provides audio output.

**3. Service Tag label**

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

# Specifications of Inspiron 7490

## Dimensions and weight

Table 2. Dimensions and weight

Description	Values
Height:	
Front	14.90 mm (0.59 in.)
Rear	17.96 mm (0.71 in.)
Width	319.77 mm (12.59 in.)
Depth	205.93 mm (8.11 in.)
Weight (maximum)	1.32 kg (2.91 lb)
<b>NOTE:</b> The weight of your computer depends on the configuration ordered and the manufacturing variability.	

## Processors

Table 3. Processors

Description	Values	
Processors	10 <sup>th</sup> Generation Intel Core i5	10 <sup>th</sup> Generation Intel Core i7
Wattage	15 W	15 W
Core count	4	4
Thread count	8	8
Speed	Up to 1.6 GHz	Up to 1.8 GHz
Cache	6 MB	8 MB
Integrated graphics	Intel UHD Graphics 620	Intel UHD Graphics 620

## Chipset

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	10 <sup>th</sup> Generation Intel Core i5/i7
DRAM bus width	64-bit

Description	Values
Flash EPROM	32 MB
PCIe bus	Up to Gen 3.0

## Operating system

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)

## Memory

**Table 5. Memory specifications**

Description	Values
Slots	Onboard memory
Type	LPDDR3
Speed	2133 MHz
Maximum memory	16 GB
Minimum memory	8 GB
Memory size per slot	Not applicable
Configurations supported	<ul style="list-style-type: none"> <li>• 8 GB LPDDR3 at 2133 MHz</li> <li>• 16 GB LPDDR3 at 2133 MHz</li> </ul>

## Ports and connectors

**Table 6. External ports and connectors**

<b>External:</b>	
USB	<ul style="list-style-type: none"> <li>• Two USB 3.1 Gen 1 ports</li> <li>• One Thunderbolt 3 (USB 3.1 Gen 2) Type-C port</li> </ul>
Audio	One headset (headphone and microphone combo) port
Video	One HDMI 2.0 port
Media card reader	One micro-SD card slot
Docking port	Not applicable
Power adapter port	Power charging leveraged through Thunderbolt 3 (USB 3.1 Gen 2) Type-C port
Security	Not applicable

**Table 7. Internal ports and connectors****Internal:**

M.2	<ul style="list-style-type: none"> <li>One M.2 3042 slot for WWAN card module</li> <li>One M.2 slot for 2230/2280 slot for solid-state drive or 2280 slot for Intel Optane Memory H10 with solid-state storage</li> </ul> <p><b>NOTE:</b> Intel Optane Memory H10 with solid-state storage and 2280 solid-state drive are supported only in computers shipped with WLAN card.</p> <p><b>NOTE:</b> To learn more about the features of different types of M.2 cards, see the knowledge base article <a href="#">SLN301626</a>.</p>
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## Communications

**WLAN module****Table 8. WLAN module specifications**

Description	Values
Model number	Intel AX201
Transfer rate	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> <li>Wi-Fi 6 (WiFi 802.11ax)</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>
Bluetooth	Bluetooth 5

**WWAN module****Table 9. WWAN module specifications**

Description	Values
Model number	Intel 7560 (DW5822e)
Transfer rate	Up to 1 Gbps DL (Category 16)/75 Mbps UL
Frequency bands supported	<ul style="list-style-type: none"> <li>LTE FDD: Band 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 21, 25, 26, 28, 29, 30, 32, 66</li> <li>LTE TDD: Band 38, 39, 40, 41, 42</li> <li>WCDMA/HSPA+: Band 1, 2, 4, 5, 8</li> </ul>
Wireless standards	<ul style="list-style-type: none"> <li>LTE Category 16</li> <li>UMTS/HSPA+</li> </ul>
Encryption	Not supported
Global Navigation Satellite System (GNSS)	Supports GPS, BDS, and GLONASS

# Audio

Table 10. Audio specifications

Description	Values
Controller	Realtek ALC3204
Stereo conversion	Supported
Internal interface	High-definition audio interface
External interface	Universal Audio Jack
Speakers	Two
Internal speaker amplifier	Supported (audio codec integrated)
External volume controls	Keyboard shortcut controls
Speaker output:	
Average	2 W
Peak	2.5 W
Subwoofer output	Not supported
Microphone	Supported (Dual digital microphones in the camera assembly)

# Storage

Your computer supports one of the following configurations:

- One M.2 2230/2280 solid-state drive
- One M.2 card solid-state drive or Intel Optane Memory H10 with solid-state storage

**NOTE:** Intel Optane Memory H10 with solid-state storage and 2280 solid-state drive are supported only in computers shipped with WLAN card.

Table 11. Storage specifications

Storage type	Interface type	Capacity
One M.2 2230/2280 solid-state drive	PCIe Gen 3.0 x4 NVMe, up to 32 Gbps	Up to 1 TB
M.2 2280 Intel Optane Memory H10 with solid-state storage	PCIe Gen 3.0 x4	Up to 512 GB

# Intel Optane memory

Intel Optane technology utilizes 3D XPoint memory technology and functions as a non-volatile storage cache/accelerator and/or storage device depending on the Intel Optane memory installed in your computer.

Your computer supports the Intel Optane Memory H10 with solid-state storage.

## Intel Optane Memory H10 with solid-state storage

Intel Optane Memory H10 with solid-state storage functions as both a non-volatile storage cache/accelerator (enabling enhanced read/write speeds for hard-drive storage) and a solid-state storage solution. It neither replaces nor adds to the memory (RAM) installed on your computer.

**Table 12. Intel Optane Memory H10 with solid-state storage specifications**

Description	Values
Interface	PCIe 3.0 x4
Connector	M.2
Form factor	2280
Capacity (Optane memory)	Up to 32 GB
Capacity (solid-state storage)	Up to 512 GB

**NOTE:** Intel Optane Memory H10 with solid-state storage is supported on computers that meet the following requirements:

- 9<sup>th</sup> Generation or higher Intel Core i3/i5/i7 processors
- Windows 10 64-bit version or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 17.2.11.1033 or higher

## Media-card reader

**Table 13. Media-card reader specifications**

Description	Values
Type	One SD card slot
Cards supported	<ul style="list-style-type: none"> <li>• Micro Secure Digital (mSD)</li> <li>• Micro Secure Digital High Capacity (mSDHC)</li> <li>• Micro Secure Digital Extended Capacity (mSDXC)</li> </ul>

## Keyboard

**Table 14. Keyboard specifications**

Description	Values
Type	Backlit keyboard
Layout	QWERTY
Number of keys	<ul style="list-style-type: none"> <li>• United States and Canada: 81 keys</li> <li>• United Kingdom: 82 keys</li> <li>• Japan: 85 keys</li> </ul>
Size	X=18.7 mm key pitch Y=18.05 mm key pitch
Shortcut keys	<p>Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key.</p> <p><b>NOTE:</b> You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.</p> <p><a href="#">Keyboard shortcuts</a></p>



# Camera

Table 15. Camera specifications

Description	Values
Number of cameras	One
Type	RGB HD camera
Location	Front camera
Sensor type	CMOS sensor technology
Resolution:	
Still image	0.92 megapixel
Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle	75 degrees

# Touchpad

Table 16. Touchpad specifications

Description	Values
Resolution:	
Horizontal	1920
Vertical	1080
Dimensions:	
Horizontal	105 mm (4.13 in.)
Vertical	65 mm (2.56 in.)

# Touchpad gestures

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article [4027871](https://support.microsoft.com/4027871) at [support.microsoft.com](https://support.microsoft.com).

# Power adapter

Table 17. Power adapter specifications

Description	Values
Type	65 W (USB Type-C)
Diameter (connector)	Not applicable
Input voltage	100 VAC to 240 VAC
Input frequency	50 Hz to 60 Hz
Input current (maximum)	1.70 A

Description	Values
Output current (continuous)	<ul style="list-style-type: none"> <li>• 3.25 A</li> <li>• 3 A</li> </ul>
Rated output voltage	<ul style="list-style-type: none"> <li>• 20 VDC</li> <li>• 15 VDC</li> <li>• 9 VDC</li> <li>• 5 VDC</li> </ul>
Temperature range:	
Operating	0°C to 40°C (32°F to 104°F)
Storage	-40°C to 70°C (-40°F to 158°F)

## Battery

**Table 18. Battery specifications**

Description	Values
Type	4-cell "smart" lithium-ion (52 WHr)
Voltage	7.60 VDC
Weight (maximum)	0.22 kg (0.49 lb)
Dimensions:	
Height	4.30 mm (0.17 in.)
Width	257.60 mm (10.14 in.)
Depth	97.04 mm (3.82 in.)
Temperature range:	
Operating	0°C to 35°C (32°F to 95°F)
Storage	-40°C to 65°C (-40°F to 149°F)
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)	4 hours (when the computer is off) <b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, <i>Me and My Dell</i> on <a href="http://www.dell.com/">www.dell.com/</a>
Life span (approximate)	300 discharge/charge cycles
Coin-cell battery	CR2032
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

# Display

Table 19. Display specifications

Description	Values	
Type	14-inch FHD touchscreen	14-inch FHD non-touchscreen
Panel technology	Wide View Angle (WVA)	Wide View Angle (WVA)
Luminance (typical)	270 nits	300 nits
Dimensions (Active area):		
Height	173.98 mm (6.85 in.)	173.98 mm (6.85 in.)
Width	309.31 mm (12.18 in.)	309.31 mm (12.18 in.)
Diagonal	355.60 mm (14.00 in.)	355.60 mm (14.00 in.)
Native resolution	1920 x 1080	1920 x 1080
Megapixels	2.07	2.07
Color gamut	100% (sRGB)	100% (sRGB)
Pixels per inch (PPI)	157	157
Contrast ratio (min)	1000:1	1000:1
Response time (max)	35 ms	35 ms
Refresh rate	60 Hz	60 Hz
Horizontal view angle	89 degrees left and right side	89 degrees left and right side
Vertical view angle	89 degrees top and bottom side	89 degrees top and bottom side
Pixel pitch	0.1611 mm x 0.1611 mm	0.1611 mm x 0.1611 mm
Power consumption (maximum)	2.4 W	1.8 W
Anti-glare vs glossy finish	Anti-Reflection	True Life
Touch options	Yes	No

# Fingerprint reader

Table 20. Fingerprint reader specifications

Description	Values
Sensor technology	Capacitive
Sensor resolution	500 dpi
Sensor area	4.06mm x 3.25 mm
Sensor pixel size	64 x 80

# Video

Table 21. Discrete graphics specifications

## Discrete graphics

Controller	External display support	Memory size	Memory type
NVIDIA N17S-G2	Not applicable	2 GB	GDDR5

Table 22. Integrated graphics specifications

## Integrated graphics

Controller	External display support	Memory size	Processor
Intel UHD Graphics 620	One HDMI 2.0 port	Shared system memory	10 <sup>th</sup> Generation Intel Core i5/i7

# Computer environment

**Airborne contaminant level:** G1 as defined by ISA-S71.04-1985

Table 23. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude (maximum)	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 ft)

\* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse when the hard drive is in use.

# Keyboard shortcuts

**NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys used for shortcuts remain the same across all language configurations.

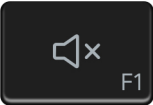

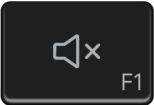
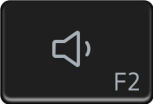

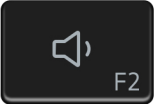
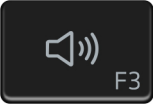

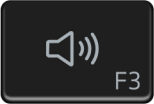
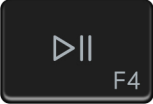

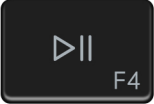

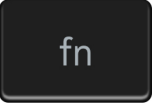
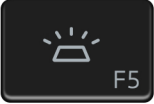
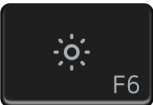

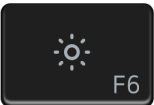
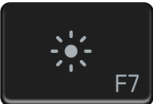

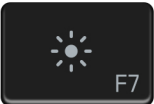
Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol shown on the upper part of the key is typed out. For example, if you press **2**, 2 is typed out; if you press **Shift + 2**, @ is typed out.



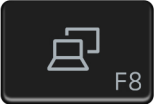



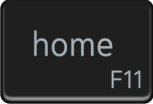

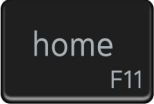
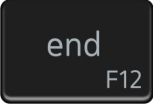

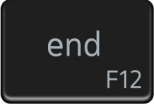
The keys F1-F12 at the top row of the keyboard are function keys for multi-media control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing F1 mutes the audio (refer to the table below).

However, if the function keys F1-F12 are needed for specific software applications, multi-media functionality can be disabled by pressing **Fn + Esc**. Subsequently, multi-media control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn + F1**.

**NOTE:** You can also define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in BIOS setup program.

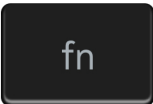










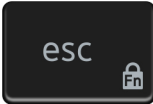
**Table 24. List of keyboard shortcuts**

Function key	Redefined key (for multimedia control)	Behavior
 F1	 +  F1	Mute audio
 F2	 +  F2	Decrease volume
 F3	 +  F3	Increase volume
 F4	 +  F4	Play/Pause
 F5	 +  F5	Toggle keyboard backlight (optional) <b>NOTE:</b> Non-backlight keyboards have F10 function key without the backlight icon and does not support toggle keyboard backlight function.
 F6	 +  F6	Decrease brightness
 F7	 +  F7	Increase brightness

Function key	Redefined key (for multimedia control)	Behavior
	 + 	Switch to external display
	 + 	Print Screen
	 + 	Home
	 + 	End

The **Fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

**Table 25. List of keyboard shortcuts**



Function key	Behavior
 + 	Pause/Break
 + 	Toggle scroll lock
 + 	System request
 + 	Toggle between power and battery-status light/hard-drive activity light
 + 	Open application menu
 + 	Toggle Fn-key lock

# Getting help and contacting Dell

## Self-help resources

You can get information and help on Dell products and services using these self-help resources:


**Table 26. Self-help resources**

Self-help resources	Resource location
Information about Dell products and services	<a href="http://www.dell.com">www.dell.com</a>
My Dell	
Tips	
Contact Support	In Windows search, type <b>Contact Support</b> , and press Enter.
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a> <a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.	<a href="http://www.dell.com/support">www.dell.com/support</a>
Dell knowledge base articles for a variety of computer concerns.	<ol style="list-style-type: none"> <li>1. Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2. Type the subject or keyword in the <b>Search</b> box.</li> <li>3. Click <b>Search</b> to retrieve the related articles.</li> </ol>
Learn and know the following information about your product: <ul style="list-style-type: none"> <li>• Product specifications</li> <li>• Operating system</li> <li>• Setting up and using your product</li> <li>• Data backup</li> <li>• Troubleshooting and diagnostics</li> <li>• Factory and system restore</li> <li>• BIOS information</li> </ul>	See <i>Me and My Dell</i> at <a href="http://www.dell.com/support/manuals">www.dell.com/support/manuals</a> . To locate the <i>Me and My Dell</i> relevant to your product, identify your product through one of the following: <ul style="list-style-type: none"> <li>• Select <b>Detect Product</b>.</li> <li>• Locate your product through the drop-down menu under <b>View Products</b>.</li> <li>• Enter the <b>Service Tag number</b> or <b>Product ID</b> in the search bar.</li> </ul>

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://www.dell.com/contactdell).

 **NOTE:** Availability varies by country/region and product, and some services may not be available in your country/region.

 **NOTE:** If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.